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FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. APPLICATION NO. FILING DATE Gregory P. Pogue 10/660,860 09/12/2003 LSBC-POGE-A1A 7908 EXAMINER 27860 7590 05/18/2006 LARGE SCALE BIOLOGY CORPORATION LONG, SCOTT 3333 VACA VALLEY PARKWAY ART UNIT PAPER NUMBER **SUITE 1000** VACAVILLE, CA 95688 1633

DATE MAILED: 05/18/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)
		10/660,860	POGUE ET AL.
	Office Action Summary	Examiner	Art Unit
		Scott D. Long	1633
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).			
Status			
1)⊠	Responsive to communication(s) filed on 12 Se	eptember 2003.	
2a) <u></u> ☐	This action is <b>FINAL</b> . 2b)⊠ This	action is non-final.	
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is		
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.			
Disposition of Claims			
<ul> <li>4)  Claim(s) 1-10 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdrawn from consideration.</li> <li>5)  Claim(s) is/are allowed.</li> <li>6)  Claim(s) is/are rejected.</li> <li>7)  Claim(s) is/are objected to.</li> <li>8)  Claim(s) 1-10 are subject to restriction and/or election requirement.</li> </ul>			
Application Papers			
<ul> <li>9) The specification is objected to by the Examiner.</li> <li>10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).</li> <li>11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.</li> </ul>			
Priority under 35 U.S.C. § 119			
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>			
2) Notice	t(s)  e of References Cited (PTO-892)  e of Draftsperson's Patent Drawing Review (PTO-948)  mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	

## **DETAILED ACTION**

## Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - I. Claim 3, drawn to a plant host, classified in class 800, subclass 295.
  - II. Claim 4, drawn to an animal host, classified in class 800, subclass 8.
  - III. Claims 1-2 and 5-10, drawn to DNA construct containing an infectious clone of an RNA virus containing a hairpin sequence, and said construct in a variety of vectors, and a method of using said construct to study gene function, classified in class 435, subclass 320.1.
- 2. The inventions are independent or distinct, each from the other because:

Inventions I and II are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different designs, modes of operation, and effects (MPEP § 802.01 and § 806.06. While Inventions I & II share the common feature of cytoplasmic inhibition mediated by hairpin nucleotide sequences, the plants and animals are nevertheless quite different organisms and are considered unrelated inventions. The structure and function of plants and animals are distinct. A major distinction between Invention I and Invention II is that of taxonomy; a high-level difference between the Plantae and Animalia Kingdoms exists in common phylogenetic classification schemes. The genetic structures and cellular physiologies

Art Unit: 1633

of these organisms are quite different, creating a distinct environment for the inventions of Groups I and II. The respective physiological processes are sufficiently different from each other to cause them to fall into different classifications. Because these inventions are structurally distinct for the reasons given above, and fall into different classifications and because a search of one does not necessarily overlap with that of another, it would be unduly burdensome for the examiner to search and examine all of the subject matter being sought in the presently pending claims, and thus, restriction for examination purposes as indicated is proper.

The DNA of Group III and the plants and animals of Groups I and II are related inventions. The related inventions are distinct if the inventions as claimed do not overlap in scope, i.e., are mutually exclusive; the inventions as claimed are not obvious variants; and the inventions as claimed are either not capable of use together or can have a materially different design, mode of operation, function, or effect. See MPEP § 806.05(j). In the instant case, the DNA claims do not overlap the scope of plant and animal claims and vice versa as evidenced by the distinct structures and functions of the claimed inventions. A DNA's structure is comprised of linear, contiguous nucleotides while the plants and animals are complex living organisms; the DNA's function is to encode a protein. The organisms have highly differentiated structures which function in a complex assortment of activities involved with the maintenance and reproduction of life. Additionally, the DNA and organisms are not obvious variants of each other based on the distinct structures and functions of each as noted above.

Thus, by virtue of the different structures and functions of the inventions of Group III and

Groups I & II, these related inventions are distinct. In addition, the search for Inventions I, II, and III causes undue burden because the searches are not coextensive.

Because these inventions are independent or distinct for the reasons given above and have acquired a separate status in the art in view of their different classification, or divergent subject matter, or the inventions require a different field of search (see MPEP § 808.02), restriction for examination purposes as indicated is proper.

3. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions

Application/Control Number: 10/660,860 Page 5

**Art Unit: 1633** 

unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

- 4. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Scott Long** whose telephone number is **571-272-9048**. The examiner can normally be reached on Monday Friday, 9am 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Dave Nguyen** can be reached on **571-272-0731**. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DAVE TRONG NGUYEN
SUPERVISORY PATENT EXAMINER